

GAU 1712

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: JOSEPH E. THOMPSON and JOEL L. BOLES

Filed: MARCH 24, 2000

For: GELLED HYDROCARBON COMPOSITIONS AND METHODS FOR USE THEREOF

Serial No.: 09/534,655

Group Art Unit: UNKNOWN

Examiner: UNKNOWN

Atty Dkt: BJSC:286

EX-8/8/00
#4

Pursuant to 37 C.F.R. 1.8, I certify that this correspondence is being deposited with the U.S. Postal Service in a first class, postage prepaid envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date below:

8-1-00
Date

Aura Leimann
Name

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, it is respectfully requested that this Information Disclosure Statement be entered and the document(s) listed on attached Form PTO-1449 be considered by the Examiner and made of record.

The present Information and Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is hereby authorized to deduct said fees from Deposit Account No. 10-1205.

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A copy of the listed document(s) required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

Reference C30 includes mixing instructions for Dresser-Titan "Maxi-Frac" fracturing fluids employed to fracture subterranean formations at least as early as the August, 1980 date of the reference. The "Maxi-Frac" fracturing fluid system described in reference C30 was used to gel fluids such as oil, refined oil, and diesel. The additive listed as "NP-1" in reference C30 refers to aluminum octoate. The additive listed as "Gel Breaker RO-1" in reference C30 refers to dodecyl benzene sulfonic acid. The additive listed as "Adomite Mark II" in reference C30 refers to a tall oil derivative fluid loss control agent that includes solid inert ingredients. The additive listed as "Flowease 'D'" in reference C30 refers to anionic surfactant from Baker Petrolite.


Reference C38 includes mixing instructions for BJ-Hughes Oil Base "Ultra Frac" fracturing fluids employed to fracture subterranean formations at least as early as the March, 1972 date of the reference. The "Ultra Frac" fracturing fluid system described in reference C38 was used to gel fluids such as kerosene, diesel and lease crude. The additive listed as "G-20" in reference C38 refers to "Sylfat FA-1" tall oil fatty acid from Arizona Chemical Company. The additive listed as "D-1" in reference C38 refers to 50% by weight sodium hydroxide solution. The additive listed as "Z-3" in reference C38 refers to powdered citric acid. The additive listed as "J-20" in reference C38 refers to a cationic quaternary ammonium chloride surfactant known as "ARQUAD 2C-75" from Akzo-Nobel.

Reference C39 includes mixing instructions for Western "Maxi-O 60 Gel" fracturing fluids employed to fracture subterranean formations at least as early as the September, 1977 date of the reference. The "Maxi-O 60 Gel" fracturing fluid system described in reference C39 was used to gel fluids such as xylene, toluene, diesel, condensate and crude oil. The additive listed as "MO-60" in reference C39 refers to aluminum octoate. The additive listed as "MO Activator" in reference C39 refers to a mixture of 75% by volume "G-25" tall oil fatty acids (e.g., blend of Arizona Chemical "Sylfat FA-1" with Hercules "PAMAK" fatty acids) and 25% by volume methanol. The additive listed as "AC-2" in reference C39 refers to acetic acid. The additive listed as "Westblock III (MO 60 breaker)" in reference C39 refers to benzoic acid. References C35 and 36 list a "MO Breaker" that is phthaloyl dichloride, which was also employed with the Western "Maxi-O 60 Gel" fracturing fluids.

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Applicant respectfully requests that the listed document(s) be made of record in the present case.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "William W. Enders", written over a horizontal line.

William W. Enders

Reg. No. 41,735

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Enclosures